

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF APS/CPS ON THE EXISTING TRAFFIC SIGNALS AT THE INTERSECTION OF MD 28 (W. MONTGOMERY AVENUE) AND CROFTON HILL LANE/RESEARCH BOULEVARD IN MONTGOMERY COUNTY. IN ADDITION, ALL SIGNAL HEADS ARE TO BE REPLACED WITH NEW LED SIGNALS. MD 28 IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA SIX-PHASE, SEMI-TRAFFIC-ACTUATED MODE. THERE IS AN EXCLUSIVE LEFT TURN PHASE FOR BOTH THE EAST AND WEST APPROACHES OF MD 28. MD 28 THRU MOVEMENTS WILL OPERATE CONCURRENTLY WHILE CROFTON HILL LN/RESEARCH BLVD THRU MOVEMENTS WILL OPERATE CONSECUTIVELY. RIGHT TURN OVERLAPS HAVE ALSO BEEN PROVIDED FOR THE RESEARCH BLVD AND WESTBOUND MD 28 MOVEMENTS. THERE IS A PEDESTRIAN PHASE FOR THE WEST LEG OF THE INTERSECTION AND THERE ARE ALTERNATE PEDESTRIAN PHASES FOR THE NORTH SIDE ROAD & MD 28 RAMP LEG OF THE INTERSECTION.

EQUIPMENT LIST FOR CONTRACT NO. XY1515185

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

CATEGORY	QUANTITY	UNIT	DESCRIPTION
900000	8	SF	SHEET ALUMINUM MAST ARMPOLE MOUNTED SIGN
	8	EA	R10-3(1) (9' x 15') POLE MOUNTED

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

CATEGORY	QUANTITY	UNIT	DESCRIPTION
100000	1	EA	MAINTENANCE OF TRAFFIC
201032	4	CY	CLASS 2 EXCAVATION
203030	4	CY	TEST PIT EXCAVATION
585412	570	LF	12 INCH WHITE LEAD THERMOPLASTIC PAVEMENT MARKING LINES
585424	30	LF	24 INCH WHITE LEAD THERMOPLASTIC PAVEMENT MARKING LINES
585700	840	LF	REMOVAL OF EXISTING PERMANENT PAVEMENT MARKING LINES, ANY WIDTH
600000	66	LF	TYPE A COMBINATION CURB AND GUTTER ANY HEIGHT OR DEPTH
600000	33	LF	TYPE A CURB ANY HEIGHT OR DEPTH
655105	350	SF	5 INCH CONCRETE SIDEWALK
655120	45	SF	DETECTABLE WARNING SURFACE FOR CURB RAMPS
800000	6	EA	AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS
800000	6	EA	LED 16 INCH COUNTDOWN PEDESTRIAN SIGNAL HEAD
800000	5	EA	5 FOOT OR 10 FOOT PEDESTAL POLE WITH BREAKAWAY COUPLINGS, FOUNDATION & GROUND ROD
800000	1	EA	CONDUIT BEND IN EXISTING FOUNDATION BASE (ANY SIZE)
800000	1	EA	REMOVE & DISPOSE OF EXISTING SIGNAL EQUIPMENT
800000	120	LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
800000	6	SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
800000	1	EA	THIRD PARTY CONCRETE TESTING
802501	120	LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
860284	54	EA	12 INCH LED VEHICULAR TRAFFIC SIGNAL HEAD SECTION
961105	1760	LF	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)
961107	430	LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)

C. EQUIPMENT TO BE REMOVED.

ALL EXISTING SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL.

CONTACTS

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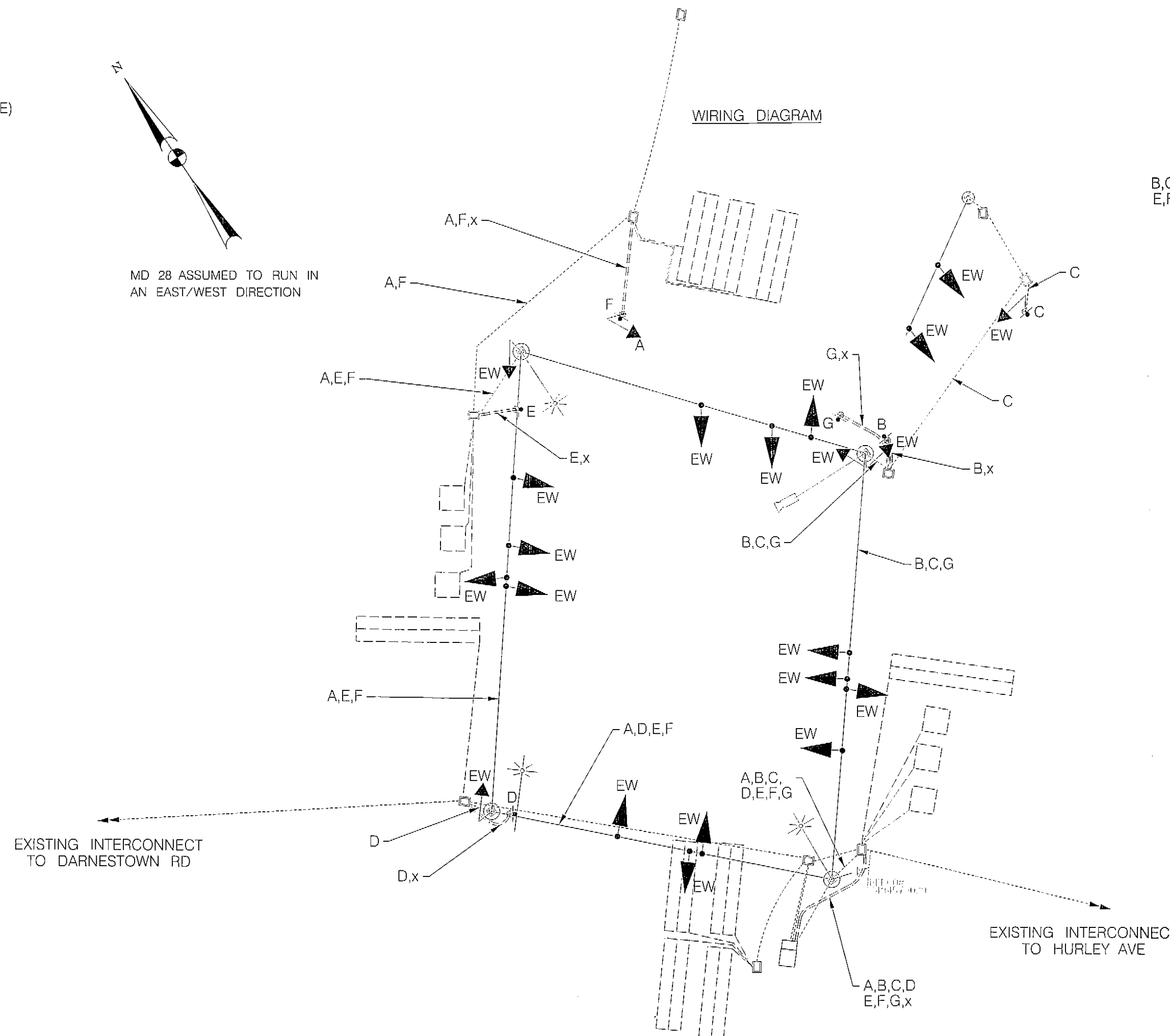
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Montgomery County DOT
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PHASE CHART

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)	(R)
(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)	(Y)
(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)	(G)

PHASE 1 AND 5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 1 AND 6	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1 CHANGE	Y	Y	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 5	R	R	R	R	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
5 CHANGE	R	R	R	R	Y	Y	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 2 AND 6	R	R	G	G	R	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	R	R	G	G	R	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R
2 AND 6 CHANGE	R	R	Y	Y	R	R	Y	Y	Y	Y	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 3	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R
3 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	R	R	R	R	R	R	R	R
PHASE 3 ALT	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R
3 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	Y	R	R	R	R	R	R	R	R
PHASE 4	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R
4 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	R	R	R	R	R	R	R	R
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	R	R	R	R	R	R
4 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R



SHA STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION
MD 28 (W. MONTGOMERY AVENUE) AT
CROFTON HILL LANE/RESEARCH BOULEVARD
ROCKVILLE, MD

GENERAL INFORMATION PLAN SHEET

SCALE NONE ADVERTISED DATE 03/2013 CONTRACT NO. XY1515185

DESIGNED BY JC COUNTY MONTGOMERY, MD
DRAWN BY JC LOGMILE 15002820.66
CHECKED BY RM TMS NO. LB03
F.A.P. NO. TOD NO.

TS NO. 545-1 DRAWING GI-1 OF 1 SHEET NO. 3 OF 3

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FILE: P:\09-002 TEDD\Task 11 MD 28 Signals\Drawings\CADD\Working\MD28@Crofton\p09-P001_MD28@Crofton.dgn